

**SECRET**

1970 APR 14 15 11Z

out 69683

R 141453Z APR 70  
FM NPIC WASHDC  
TO RUEKJCS/DIA  
RHCOAAA/SAC  
RUWJIEA/9 SRW BEALE AFB CALIF  
BT

**S E C R E T.** CITE NPIC 8321.

SAC FOR DI AND RECON CENTRAL

DIA FOR DIAXX-2 AND DIAAP-9

REF: DIA 310133Z, MAR 70

SUBJECT: EVALUATION OF GIANT SCALE MSNS S-226 AND S-237

1. NPIC EVALUATED THE ORIGINAL NEGATIVES FROM MSNS S-226, FLOWN 16 FEB 70 AND S-237 FLOWN 19 MAR 70. COMMENTS ON IMAGE QUALITY ARE APPLICABLE TO ORIGINAL NEGATIVES.

2. MISSION S-226:

A. QUALITY SUMMARY: THE MSN IS HALF THE LENGTH OF NORMAL MSNS OF THIS TYPE. IN ADDITION, 40 PERCENT WAS ACQUIRED OVER WATER AND 20 PERCENT OF THE REMAINING IMAGERY IS OBSCURED BY CLOUDS AND HAZE. CAMERAS OPERATED SATISFACTORILY THROUGHOUT AND PROVIDED FAIR IMAGE QUALITY IN ISOLATED AREAS. EMPIRICAL GROUND RESOLUTION ESTIMATES OF

PAGE 2 RUEADJU 0036 **S E C R E T**  
THE BEST IMAGERY IN CLOUD FREE AREAS ARE AS FOLLOWS:

- (1) LEFT TEOC: 3.5 FEET
- (2) RIGHT TEOC: 4.0 FEET
- (3) LEFT OOC: 4.0 FEET
- (4) RIGHT OOC: 4.5 FEET

B. ANALYSIS OF TEOC:

(1) LEFT TEOC (S/N 64-23): MINOR ROLLER CHATTER AT BEGINNING OF MISSION. IN SEVERAL CASES, DATA CHAMBERS FALL WITHIN FORMAT. SIXTY PERCENT OF FRAMES ACQUIRED AT OBLIQUITIES GREATER THEN 30 DEGREES.

(2) RIGHT TEOC (S/N 64-24): OPERATED SATISFACTORILY. SIXTY-FIVE PERCENT OF FRAMES ACQUIRED OVER 30 DEGREES OBLIQUITY.

C. ANALYSIS OF OOC:

(1) LEFT OOC (S/N 4033): OPERATED SATISFACTORILY.

(2) RIGHT OOC (S/N 4004): OPERATED SATISFACTORILY.

3. MSN S-237:

A. QUALITY SUMMARY: APPROXIMATELY 75 PERCENT OF THE MISSION IS ACQUIRED OVER WATER OR AFFECTED BY CLOUDS AND HAZE. IN MANY AREAS DENSITY OF ORIGINAL NEGATIVE IS LESS THAN OPTIMUM, HOWEVER, IN THE SPRING SEASON, MANY FRAMES EXHIBIT BOTH SNOW COVERED AND

DISTRIBUTION		
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	AREA 20P	
	CMX	

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SNOW FREE TERRAIN IMAGERY; THEREFORE, DENSITY VARIATIONS ARE UNAVOIDABLE. CAMERAS OPERATED SATISFACTORILY AND PROVIDED FAIR TO GOOD IMAGE QUALITY. EMPIRICAL GROUND RESOLUTION ESTIMATES OF BEST IMAGERY IN CLOUD FREE FRAMES ARE AS FOLLOWS:



B. ANALYSIS OF TEOC:

**SECRET**

ADVANCE TO  
SANTO  
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(1) LEFT TEOC (S/N 64-15): MINOR LOW FREQUENCY BANDING IS PRESENT THROUGHOUT. TWENTY PERCENT OF MATERIAL WAS EXPOSED OVER WATER.

(2) RIGHT TEOC (S/N 64-20): MINOR LOW FREQUENCY BANDING THROUGHOUT.

C. ANALYSIS OF OOC:

(1) LEFT OOC (S/N 4019): OPERATED SATISFACTORILY.

(2) RIGHT OOC (S/N 4032): OPERATED SATISFACTORILY.

4. THE REPRODUCTIONS RECEIVED AT NPIC ARE SATISFACTORY; HOWEVER, OVERALL INTERPRETABILITY IS DIMINISHED BY TERRAIN CONDITIONS (NOTE PARA 3A) AND THE FACT THAT ONLY SINGLE LEVEL REPRODUCTIONS WERE

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PRODUCED.

5. COMMENTS: A SLIGHT INCREASE IN EXPOSURE AND A SLIGHT DECREASE IN THE PRINTING LEVEL MIGHT HAVE ENHANCED SOME TARGET AREAS; HOWEVER, CONCERN EXPRESSED BY PHOTO INTERPRETERS CANNOT BE ATTRIBUTED TO ANY MAJOR PROBLEM. LACK OF TERRAIN COVERAGE, ATMOSPHERICS, AND SEASONAL CONDITIONS ARE THE APPARENT REASONS FOR THE INTERPRETERS CONCERN.

GP-1

S E C R E T

END OF MESSAGE

GRUP-ONE